

Center for Scientific Instrumentation and Platform Services, Faculty of Science, Mahidol University

อัตราค่าบริการเครื่องมือวิทยาศาสตร์และน้ำบริสุทธิ์ของหน่วยบริการเครื่องมือและแพลตฟอร์มด้านวิทยาศาสตร์ คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล

Instrument	Rental Cost (Baht/Hour)				Print		Note	Accessories						
	SC staff	Mahidol	Government	Private	B/W	Color		Type	Price					
Group 1 : Liquid Chromatography														
1.1 HPLC 600-717 Autosampler-PDA996	100	150	200	250	2	10	10% Discount when using user's column	Filter Nylon 0.45 µm	15					
1.2 HPLC 600-717 Autosampler-ECD432	100	150	200	250	2	10		Filter Nylon 0.20 µm	15					
- Conductivity Detector 464	100	150	200	250	2	10		Filter CA 0.45 µm	15					
1.3 HPLC 2695-UV/Vis2487-PDA996	100	150	200	250	2	10		Plastic Syringe 3 ml	5					
1.4 HPLC 2695-FluoroFP2020-UV/Vis2487	100	150	200	250	2	10		Septum PTFE	1					
1.5 HPLC e2695-RI2414-UV/Vis2489	100	160	250	350	2	10		Vial1.5ml (clear) w/Cap	20					
1.6 Capillary Electrophoresis (CE)								Insert vial w/spring	30					
- UV-Vis Detector	150		200	300	2	10		Insert vial	20					
- Photodiode Array Detector	200		320	400	2	10								
- Fluorescence Detector	250		400	500	2	10								
1.7 LC-Ion Trap MS/MS					2	10								
- LC-MS (Direct Infusion)	150	225	Contact analyst		2	10								
- LC-UV-MS/MS	150	225			2	10								
Group 2 : Gas Chromatography														
2.1 GC 6890-FID-NPD	90	135	180	225	2	10	10% Discount when using user's column	Filter Nylon 0.20, 0.45µm	15					
2.2 GC 7890B-FID-TCD	120	220	320	420	2	10		Headspace crimp cap	20					
- GC with Headspace Sampler	160	260	360	460	2	10		Plastic Syringe 3 ml	5					
2.3 GC 6890-MSD5973	150	225	Contact analyst		2	10		Septum PTFE/Rubber	5					
- GC-MicroECD-TCD	90	135	180	225	2	10		Plastic Syringe 3 ml	5					
2.4 GC-MSD5977B with PAL-RTC120	300	500	Contact analyst		2	10								
Group 3 : Spectrophotometer														
3.1 UV-Vis-Spectrophotometer (Jasco V-530)	30	45	60	75	2	10								
3.2 UV-Vis-Spectrophotometer (Shimadzu UV2600)	60	120	200	300	2	10								
3.3 Spectrofluorometer (Jasco FP-6200)	30	45	60	75	2	10								
3.4 Spectrofluorometer (Horiba FluoroMax4)	70	130	200	300	2	10								
3.5 Nanodrop Spectrophotometer	7	11	14	18	2	10	Price per No. of Counting							
3.6 Atomic Absorption Spectrometer														
- Flame or Hydride Generation Mode	140	250	280	350	2	10								
- Graphite Furnace Mode	200	300	350	450	2	10								
3.7 Microwave Plasma-Atomic Emission Spectrometry (MP-AES)	300	550	660	850	2	10								
3.8 LC-ICP-MS	1,000	1,400	Contact analyst		2	10								
Group 4 : Bioscience Instrument														
4.1 Microplate Reader (Tecan: Spark 10M)	70	130	200	300	2	10		96-well plate (Clear bottom)	400					
4.2 Flow Cytometer-Canto/Aria II/Attune (Cell Analysis)	300		Contact analyst		2	10	30-49 samples (15% Discount)	96-well plate (White Bottom)	200					
						≥50 samples (20% Discount)	96-well plate (Black plate)	200						
4.3 Flow Cytometer-Arial II (Cell Sorting)	1,200				2	10		Cover plate	100					
								Glass vial with Cap (20 ml)	20					
4.4 Real Time PCR (ABI-7500)	55	85	110	135	2	10		FACS Tube-SNAP Cap/Tube	7					
								FACS Tube-SNAP Cap/Pack	625					
4.5 Plant Photosynthesis System (LICOR)*			SC Staff Only				Price per Day	FACS Tube-No Cap/Tube	5					
- Without CO ₂ Tube	500							FACS Tube-No Cap/Pack	500					
- With CO ₂ Tube	750							FACS Cell strainer Cap/Tube	30					
- CO ₂ Tube	250							FACS Cell strainer Cap/Pack	750					
Group 5 : Sample Preparation														
5.1 Ultracentrifuge (L-100)	35	50	70	90	-	-		Centrifuge Tube (Rent/Tube)	10					
5.2 Superspeed Centrifuge (J2-MC)	45	70	90	120	-	-								
5.3 Superspeed Centrifuge (X-22R)	45	70	90	120	-	-								
5.4 Microcentrifuge (FRESCO 17)	20	30	40	60	-	-								
5.5 Autoclave	30	45	60	75	-	-								
5.6 Shaker Incubator	10	15	20	25	-	-	Discount 30% when using more than 24 hr.							
5.7 Freeze Dryer (Supermodulyo)	50	75	100	125	-	-	Discount 10% when using more than 24 hr.							

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5.8 Freeze Dryer (Labconco)	50	75	100	125	-	-	Discount 10% when using more than 24 hr.		
5.9 Speed Vacuum Concentrator	50	75	100	125	-	-			
5.10 Rotary Evaporator	30	45	60	75	-	-			
5.11 Homogenizer (Dispersive)	20	30	40	50	-	-	(Dispersion Homogenizer)		
5.12 Microwave Digestion System	450	500	600	800	-	-			
5.13 Ultra Sonic Homogenizer									
- Large Probe (TT13)	40	60	80	100	-	-	Price for limited use not over 15 min/ time 50% Discount when using user's probe		
- Small Probe (MS72)	80	120	160	200	-	-			
Group 6 : Thermal Analysis									
6.1 DSC 8000							Price per Sample		
- Without Liquid N ₂ (-70-500 °C)	350	550	Contact analyst		-	-			
- With Liquid N ₂ (-160 – 500 °C)	650	850			-	-			
6.2 TGA 4000 (Temperature range 30-900 °C)	450	650	Contact analyst		-	-			
Group 7 : Materials Science Instrument									
7.1 X-ray Photoelectron Spectroscopy (XPS)	750	Contact analyst			-	-	Price per Hour		
7.2 Surface Area And Porosity							Price per Sample		
- BET (surface area)	1,500	Contact analyst			-	-			
- Isotherm (surface area and pore size)	2,500								
- Micro pore (P/P ₀ <0.001)	3,000								
- Sample preparation and data processing	50								
7.3 Atomic Force Microscope (AFM)									
- Usage charge per hour	220	320	400	500	-	-	Cantilever for Contact mode/Non-Contact mode		1,000
- Usage charge per day (09.00-17.00 Hr.)	1,500	2,300	2,700	3,400			Cantilever for In Liquid mode/Force Modulation mode		1,000
							Cantilever for E-AFM mode		1,400
							Cantilever for Fast Scan mode		1,600
							Cantilever for Magnetic Force Microscopy		1,800
Group 8 : Water Purification Systems									
8.1 Reverse Osmosis (RO)	3/L	7/L	10/L	15/L	-	-	Minimum providing 1 Liter		
8.2 Type II: Pure water	15/L	30/L	40/L	50/L	-	-			
8.3 Type I: Ultrapure water	20/L	45/L	60/L	80/L	-	-			

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อัตราค่าบริการใช้เครื่องมือ
Instrument Charge Rate

